



COMBINED DECLARATION FOR PATENT APPLICATION  
AND POWER OF ATTORNEY

Page 1 of 2  
PD- 97-4

- ☒ Original  
☐ Continuation  
☐ Division  
☐ Continuation-in-part  
☐ Supplemental  
☐ PCT  
☐ Design

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled Code-Programmable Field-Programmable Architecturally-Systolic Reed-Solomon BCH Error Correction Decoder Integrated Circuit and Error Correction Decoding Method

the specification of which

RECEIVED  
FEB 04 2003  
OFFICE OF PETITIONS

(check one) ☐ is attached hereto

☒ was filed on April 19, 2001 as Application Serial No. 09/838,610 and (a) [other than supplemental] was amended on or (b) [supplemental] with amendments through

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

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Priority Claimed

Number Country Day/Month/Year filed

☐ Yes ☐ No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States applications(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No. Filing Date Status  
(patented, pending, abandoned)

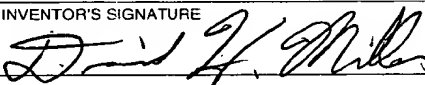
I hereby appoint the following attorneys, or agent and attorneys, to prosecute the application and to transact all business in the Patent and Trademark Office in connected therewith:

Kenneth W. Float, Registration No. 29,233

Address all telephone calls to Kenneth W. Float at (949) 459-5519.

Address all correspondence to the Law Offices of K. W. Float, Box 80790, Rancho Santa Margarita, CA 92688-0790.

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FULL NAME OF SOLE OR FIRST JOINT INVENTOR David H. Miller		INVENTOR'S SIGNATURE 		DATE 7-10-01
RESIDENCE 9 Adler Circle		Sacramento CA 95864		CITIZENSHIP U.S.A.
POST OFFICE ADDRESS 9 Adler Circle, Sacramento, CA 95864				
FULL NAME OF JOINT INVENTOR Norman L. Swenson		INVENTOR'S SIGNATURE		DATE
RESIDENCE 993 Solana Court		Mountain View CA 94040		CITIZENSHIP U.S.A.
POST OFFICE ADDRESS 993 Solana Court, Mountain View, CA 94040				
FULL NAME OF JOINT INVENTOR Hari Surapaneni		INVENTOR'S SIGNATURE		DATE
RESIDENCE 28446 Christopher's Lane		Los Altos Hills CA 94022		CITIZENSHIP U.S.A.
POST OFFICE ADDRESS 28446 Christopher's Lane, Los Altos Hills, CA 94022				
FULL NAME OF JOINT INVENTOR Richard W. Koralek		INVENTOR'S SIGNATURE		DATE
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POST OFFICE ADDRESS 1925 Bryant Street, Palo Alto, CA 94301				
FULL NAME OF JOINT INVENTOR James M. Gardner		INVENTOR'S SIGNATURE		DATE
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Filing Date

Status  
(patented, pending, abandoned)

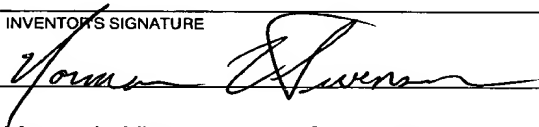
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RESIDENCE 9 Adler Circle Sacramento CA 95864		CITIZENSHIP U.S.A.
POST OFFICE ADDRESS 9 Adler Circle, Sacramento, CA 95864		
FULL NAME OF JOINT INVENTOR Norman L. Swenson	INVENTOR'S SIGNATURE 	DATE 11/26/02
RESIDENCE 993 Solana Court Mountain View CA 94040		CITIZENSHIP U.S.A.
POST OFFICE ADDRESS 993 Solana Court, Mountain View, CA 94040		
FULL NAME OF JOINT INVENTOR Hari Surapaneni	INVENTOR'S SIGNATURE	DATE
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## DECLARATION

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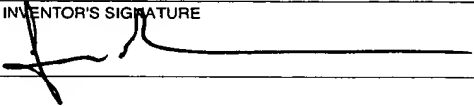
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FULL NAME OF JOINT INVENTOR <b>James M. Gardner</b>	INVENTOR'S SIGNATURE 	DATE <b>1/22/03</b>
RESIDENCE <b>132 Woodland Valley Drive, San Ramon CA 94583</b>		CITIZENSHIP <b>U.S.A.</b>
POST OFFICE ADDRESS <b>132 Woodland Valley Drive, San Ramon, CA 94583</b>		
FULL NAME OF JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
RESIDENCE		CITIZENSHIP
POST OFFICE ADDRESS		

**PATENTS ONLY**

Tab settings ▼ ▼ ▼ ▼ ▼ ▼ ▼

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

David H. Miller  
Norman L. Swenson  
Hari Surapaneni  
Richard W. Koralek  
James M. Gardner



2. Name and address of receiving party(ies):

Name: Lockheed Martin Corporation

Internal Address: \_\_\_\_\_

Street Address: 6801 Rockledge Drive

City: Bethesda State MD Zip 20817

Additional name(s) & address(es) attached? ☐ Yes ☒ No

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: 7/10/01, 9/17/01, 7/23/01, 12/5/02, 1/22/03

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 5/7/97

A. Patent Application No.(s)

09/838,610

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Keith D. Nelson

Internal Address: Lockheed Martin Corporation

Street Address: 3200 Zanker Road, B/220; M/S A08

City: San Jose State CA Zip 95134

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Kenneth W. Float

Name of Person Signing

Signature

January 28, 2003

Date

Total number of pages comprising cover sheet:

1

## PATENT 97-4

COPY

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I (we) do hereby sell, assign and transfer unto Lockheed, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under said application for Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

Name(s) of inventor(s)

Address

David H. Miller

First Inventor

9 Adler Circle, Sacramento, CA 95864

Norman L. Swenson

Second Inventor

993 Solana Court, Mountain View, CA 94040

Hari Surapaneni

Third Inventor

28446 Christopher's Lane, Los Altos Hills, CA 94022

Richard W. Koralek

Fourth Inventor

1925 Bryant Street, Palo Alto, CA 94301

James M. Gardner

Fifth Inventor

4538 Caraway Court, San Jose, CA 95129

Sixth Inventor

### Seventh Inventor

And for the above consideration, I (we each) agree promptly upon request from Lockheed its successors or assigns. to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Lockheed its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of such Letters Patent provided the expenses which may be incurred by me in lending such cooperation and assistance are paid by Lockheed.

IN WITNESS WHEREOF, I (we) hereunto set my (our) hand(s) and seal(s):

David F. Muth

**Inventor's Signature**

7-10-01

Assignment Execution Date

Inventor's Signature

Assignment Execution Date

Inventor's Signature

Assignment Execution Date

**Inventor's Signature**

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# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

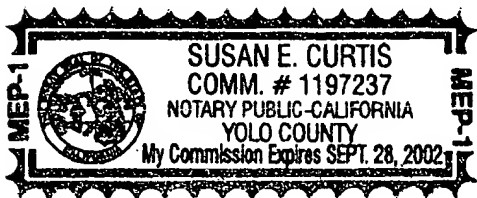
STATE OF CALIFORNIA

COUNTY OF Sacramento

SS.

On July 10, 2001 before me, the undersigned, a Notary Public in and for said State personally appeared David H. Miller  
Name(s) of Signer(s)

☐ Personally known to me OR ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



(Area above for official notarial seal)

Witness my hand and official seal.

Susan E. Curtis  
Signature of Notary

SUSAN E. CURTIS  
Name (Typed or Printed)

## Capacity Claimed by Signer

- ☒ Individual(s)  
☐ Corporate Officer(s) - Title(s) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
☐ Partner(s)  
☐ Attorney-in-Fact  
☐ Trustee(s)  
☐ Guardian/Conservator  
☐ Other: \_\_\_\_\_  
 \_\_\_\_\_

Signer is Representing: Name of person(s) or Entity(ies) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## Description of Attached Document

(Although this information is optional, it could prevent fraudulent attachment of this certificate to another document.)

This certificate is for attachment to the document described below:

Title or type of document Assignment

Number of pages TWO

Date of document 7-10-01

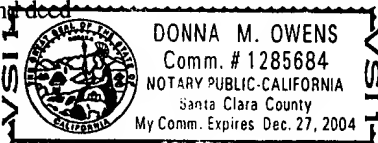
Signer(s) other than named above \_\_\_\_\_

NORMAN L. SWENSON - HUSBAND  
RICHARD W. KORALEK  
JAMES M. HURDAN



STATE OF California)  
COUNTY OF Santa Clara) ss.:

BEFORE me this 5th day of December, 192002, personally appeared  
Norman Swenson who is ☐ personally known or ☐ proved to me on the  
basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his  
free act and deed



Donna M. Owens  
Notary Public

STATE OF \_\_\_\_\_)  
COUNTY OF \_\_\_\_\_) ss.:

BEFORE me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared  
\_\_\_\_\_ who is ☐ personally known or ☐ proved to me on the  
basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be h\_\_\_\_  
free act and deed

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_)  
COUNTY OF \_\_\_\_\_) ss.:

BEFORE me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared  
\_\_\_\_\_ who is ☐ personally known or ☐ proved to me on the  
basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be h\_\_\_\_  
free act and deed

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_)  
COUNTY OF \_\_\_\_\_) ss.:

BEFORE me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared  
\_\_\_\_\_ who is ☐ personally known or ☐ proved to me on the  
basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be h\_\_\_\_  
free act and deed

\_\_\_\_\_  
Notary Public

## PATENT 97-4

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged. I (we) do hereby sell, assign and transfer unto Lockheed, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under said application for Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

Name(s) of inventor(s)

Address

David H. Miller

First Inventor

9 Adler Circle, Sacramento, CA 95864

Norman L. Swenson

## Second Inventor

993 Solana Court, Mountain View, CA 94040

Hari Surapaneni

Third Inventor

28446 Christopher's Lane, Los Altos Hills, CA 94022

Richard W. Koralek

#### Fourth Inventor

1925 Bryant Street, Palo Alto, CA 94301

James M. Gardner

### Fifth Inventor

4538 Caraway Court, San Jose, CA 95129

Sixth Inventor

Seventh Inventor

And for the above consideration, I (we each) agree promptly upon request from Lockheed its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Lockheed its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of such Letters Patent provided the expenses which may be incurred by me in lending such cooperation and assistance are paid by Lockheed.

IN WITNESS WHEREOF, I (we) hereunto set my (our) hand(s) and seal(s):

Inventor's Signature

Assignment Execution Date

**Inventor's Signature**

Assignment Execution Date

Hari Suryapuri

9/17/01

**Inventor's Signature**

Assignment Execution Date

**Inventor's Signature**

Assignment Execution Date

Inventor's Signature

Assignment Execution Date

**Inventor's Signature**

Assignment Execution Date

Inventor's Signature

Assignment Execution Date



STATE OF \_\_\_\_\_ )  
 )  
COUNTY OF \_\_\_\_\_ ) ss.:

BEFORE me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared \_\_\_\_\_ who is ☐ personally known or ☐ proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be h\_\_\_\_\_ free act and deed

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ )  
 )  
COUNTY OF \_\_\_\_\_ ) ss.:

BEFORE me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared \_\_\_\_\_ who is ☐ personally known or ☐ proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be h\_\_\_\_\_ free act and deed

\_\_\_\_\_  
Notary Public

STATE OF California )  
 )  
COUNTY OF Santa Clara ) ss.:

BEFORE me this 17th day of September, 192001, personally appeared Hari Surayneni who is ☐ personally known or ☒ proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his free act and deed



Donna M. Owens

Notary Public

STATE OF \_\_\_\_\_ )  
 )  
COUNTY OF \_\_\_\_\_ ) ss.:

BEFORE me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared \_\_\_\_\_ who is ☐ personally known or ☐ proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be h\_\_\_\_\_ free act and deed

\_\_\_\_\_  
Notary Public

## PATENT 97-4

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I (we) do hereby sell, assign and transfer unto Lockheed, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under said application for Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

Address

9 Adler Circle, Sacramento, CA 95864

993 Solana Court, Mountain View, CA 94040

28446 Christopher's Lane, Los Altos Hills, CA 94022

28446 Christopher's Lane, Los Altos Hills, CA 94022

1925 Bryant Street, Palo Alto, CA 94301

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4538 Caraway Court, San Jose, CA 95129

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4538 Caraway Court, San Jose, CA 95129

IN WITNESS WHEREOF, I (we) hereunto set my (our) hand(s) and seal(s):

Assignment Execution Date

Assignment Execution Date

Assignment Execution Date

Assignment Execution Date

Assignment Execution Date

Assignment Execution Date

STATE OF California)  
 COUNTY OF Santa Clara) ss.:

BEFORE me this 23 day of July, <sup>2001</sup>19, personally appeared Richard Kozalek who is ☒ personally known or ☐ proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his free act and deed

Francine K. Fehl Notary Public



STATE OF \_\_\_\_\_)  
 COUNTY OF \_\_\_\_\_) ss.:

BEFORE me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared \_\_\_\_\_ who is ☐ personally known or ☐ proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his free act and deed

\_\_\_\_\_  
 Notary Public

STATE OF \_\_\_\_\_)  
 COUNTY OF \_\_\_\_\_) ss.:

BEFORE me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared \_\_\_\_\_ who is ☐ personally known or ☐ proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his free act and deed

\_\_\_\_\_  
 Notary Public

STATE OF \_\_\_\_\_)  
 COUNTY OF \_\_\_\_\_) ss.:

BEFORE me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared \_\_\_\_\_ who is ☐ personally known or ☐ proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his free act and deed

\_\_\_\_\_  
 Notary Public

## PATENT 97-4

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Name(s) of inventor(s)

Address

David H. Miller

First Inventor

9 Adler Circle, Sacramento, CA 95864

## Norman L. Swenson

### Second Inventor

993 Solana Court, Mountain View, CA 94040

Hari Surapaneni

### Third Inventor

28446 Christopher's Lane, Los Altos Hills, CA 94022

Richard W. Koralek

#### Fourth Inventor

1925 Bryant Street, Palo Alto, CA 94301

James M. Gardner

### Fifth Inventor

132 Woodland Valley Drive, San Ramon, CA 94583

### Sixth Inventor

### Seventh Inventor

And for the above consideration, I (we each) agree promptly upon request from Lockheed its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to Lockheed its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of such Letters Patent provided the expenses which may be incurred by me in lending such cooperation and assistance are paid by Lockheed.

IN WITNESS WHEREOF, I (we) hereunto set my (our) hand(s) and seal(s):

~~Inventor's Signature~~

Assignment Execution Date

**Inventor's Signature**

Assignment Execution Date

**Inventor's Signature**

Assignment Execution Date

**Inventor's Signature**

Assignment Execution Date

**Inventor's Signature**

Assignment Execution Date

**Inventor's Signature**

Assignment Execution Date

**Inventor's Signature**

Assignment Execution Date

ASSIGNMENT

PATENT 97-4

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ ) ss.:

BEFORE me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared \_\_\_\_\_ who is ☐ personally known or ☐ proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be h\_\_\_\_\_ free act and deed

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ ) ss.:

BEFORE me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared \_\_\_\_\_ who is ☐ personally known or ☐ proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be h\_\_\_\_\_ free act and deed

\_\_\_\_\_  
Notary Public

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ ) ss.:

BEFORE me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared \_\_\_\_\_ who is ☐ personally known or ☐ proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be h\_\_\_\_\_ free act and deed

\_\_\_\_\_  
Notary PublicSTATE OF California )COUNTY OF Santa Clara ) ss.:

BEFORE me this 22nd day of January, 2003, personally appeared James M. Gardner who is ☐ personally known or ☒ proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his free act and deed

\_\_\_\_\_  
Notary Public